

Appropriate Technology

June 2013

Volume 40, No 2

ISSN 0305-0920 (Print)

ISSN 1751-6900 (Online)

Incorporating
Agriculture & Equipment
International

International Agricultural
Development

Editor

David Dixon
"Carpenters", Chetnole
Sherborne Dorset
DT9 6PF, UK

Tel: +44 (0)1935 872 695
dixon david2@sky.com

Consultant Editors

John Madeley
George Macpherson

2013 Subscriptions:

Individuals: £52 (US\$104) per annum
All other subscribers: £166 (US\$332)

Published quarterly in Britain by
Research Information Ltd
Grenville Court, Britwell Road,
Burnham, Buckinghamshire
SL1 8DF, UK
Tel: +44(0)1628 600499
Fax: +44 (0)1628 600488
info@researchinformation.co.uk
www.appropriate-technology.com

(c)Copyright 2013

No part of this publication may be reproduced or transmitted in any form or by any means, or used in any information storage or retrieval system, without the prior written permission of the publisher, except as follows: (1) Subscribers may reproduce, for local internal distribution only, the highlights, topical summary and table of contents pages unless those pages are sold separately; (2) Subscribers who have registered with The Copyright Licensing Agency Ltd., 90 Tottenham Court Road, London W1P 9HE, UK or, The Copyright Clearance Center, USA and who pay the fee of US\$2.00 per page per copy fee may reproduce portions of this publication, but not entire issues. The Copyright Clearance Center is located at 222, Rosewood Drive, Danvers, Massachusetts 01923, USA; tel: +1 978 750 8400.

No responsibility is accepted by the Publishers or Editors for any injury and/or damage to persons or property as a matter of product liability, negligence or otherwise, or from any use or operation of any methods, products, instructions or ideas contained in this publication.

Advertising material is expected to conform to ethical standards, but inclusion in this publication must not be construed as being any guarantee of quality, value or safety, or endorsement of any claims made by the advertiser.

Contents

REGULAR FEATURES

- 4 **Comment: The mobile phone – technology so appropriate for today**
- 5 **News briefing**
- 9 **Health matters**
- 16 **Agriculture**
- 29 **Forthcoming**
- 33 **Practical Action Technical Brief**
- 30 **Broadbrush by John Madeley**
- 69 **GIZ Deutsche Gesellschaft für Internationale
Zusammenarbeit (GIZ) GmbH**
- 36 **Integrated pest management**
Uprooting underground killers
- 38 **Agroforestry**
Seeds of growth
- 41 **Letters**
- 42 **Information & communications technology**
Sharing local knowledge
Use and sustain ICT innovations for bringing research into practice
Interactive radio and video help researchers to engage with farmers
Research-based advice for farmers
- 52 **Housing**
Making earthen houses safe during earthquakes
- 54 **Livestock**
Cell phones revolutionising Kenya's livestock
Cattle rustling stimulates profitable dairy farming
Four-legged futures
New vaccine for foot and mouth
- 64 **Women**
Empowering the Papuan women of Indonesia

The publishers gratefully acknowledge the support of regular bulk subscribers to Appropriate Technology including, Misereor, CAFOD, ITDG, Peace Corps and VSO.

Front Cover: In Vietnam's Central Highlands, improved cattle farming is leading to higher incomes. Improved forages are cut and carried twice-a-day to cows being intensively fattened.

Credit Neil Palmer (see page 60)